Troubleshooting

To better help our customers - this HP Laserjet 4250 4350 series troubleshooting page is simply a guide / additional information for your convenience, as you search for assistance in repairing your machine. Although this information is provided for your convenience it is recommended, for the most part, that a technician inspects your office equipment.

It is recommended to consult with a professional when ordering your printer part(s).

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* HP LaserJet maintenance kits
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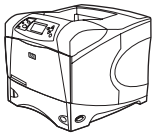
Printer configurations

The HP LaserJet 4200, 4250, 4300 and 4350 Series printers are available in a total of six models.

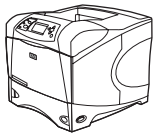
Base model

Table 1-1 Printer descriptions, base models

Base model	Availability	Configuration
	HP LaserJet 4200 printer (Q2425A)	■ 48 MB RAM, expandable to 416 MB ■ One 100-sheet tray and one 500-sheet tray
	HP LaserJet 4200L printer (Q3993A) (This model is not available in all countries/regions.)	■ 48 MB RAM, expandable to 288 MB ■ One 100-sheet tray and one 500-sheet tray
	HP LaserJet 4250 printer (Q5400A)	■ 48 MB RAM, expandable to 512 MB ■ One 100-sheet tray and one 500-sheet tray
	HP LaserJet 4300 printer (Q2431A)	■ 64 MB RAM, expandable to 416 MB ■ One 100-sheet tray and one 500-sheet tray

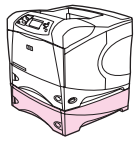
n model

Table 1-2 Printer descriptions, n model

n model	Availability	Configuration
	HP LaserJet 4200n printer (Q2426A)	■ 64 MB RAM, expandable to 416 MB ■ One 100-sheet tray and one 500-sheet tray ■ HP Jetdirect 10/100Base-TX print server for network connection
	HP LaserJet 4200Ln printer (Q3994A)	■ 64 MB RAM, expandable to 416 MB ■ One 100-sheet tray and one 500-sheet tray ■ HP Jetdirect 10/100Base-TX print server for network connection
	HP LaserJet 4250n printer (Q5401A)	■ 64 MB RAM, expandable to 512 MB ■ One 100-sheet tray and one 500-sheet tray ■ HP Jetdirect embedded print server for connecting to a 10/100Base-TX network
	HP LaserJet 4300n printer (Q2432A)	■ 80 MB RAM, expandable to 416 MB ■ One 100-sheet tray and one 500-sheet tray ■ HP Jetdirect 10/100Base-TX print server for network connection
	HP LaserJet 4350n printer (Q5407A)	■ 80 MB RAM, expandable to 512 MB ■ One 100-sheet tray and one 500-sheet tray ■ HP Jetdirect embedded print server for connecting to a 10/100Base-TX network

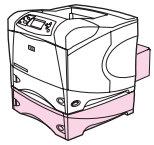
tn model

Table 1-3 Printer descriptions, tn model

tn model	Availability	Configuration
	HP LaserJet 4200tn printer (Q2427A)	■ 64 MB RAM, expandable to 416 MB ■ One 100-sheet tray and two 500-sheet trays ■ HP Jetdirect 10/100Base-TX print server for network connection
	HP LaserJet 4250tn printer (Q5402A)	■ 64 MB RAM, expandable to 512 MB ■ One 100-sheet tray and two 500-sheet trays ■ HP Jetdirect embedded print server for connecting to a 10/100Base-TX network
	HP LaserJet 4300tn printer (Q2433A)	■ 80 MB RAM, expandable to 416 MB ■ One 100-sheet tray and two 500-sheet trays ■ HP Jetdirect 10/100Base-TX print server for network connection
	HP LaserJet 4350tn printer (Q5408A)	■ 80 MB RAM, expandable to 512 MB ■ One 100-sheet tray and two 500-sheet trays ■ HP Jetdirect embedded print server for connecting to a 10/100Base-TX network

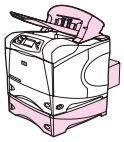
dtn model

Table 1-4 Printer descriptions, dtn model

dtn model	Availability	Configuration
	HP LaserJet 4200dtn printer (Q2428A)	■ 64 MB RAM, expandable to 416 MB ■ One 100-sheet tray and two 500-sheet trays ■ HP Jetdirect 10/100Base-TX print server for network connection ■ Duplexer for automatic two-sided printing
	HP LaserJet 4250dtn printer (Q5403A)	■ 80 MB RAM, expandable to 512 MB ■ One 100-sheet tray and two 500-sheet trays ■ HP Jetdirect embedded print server for connecting to a 10/100Base-TX network ■ Duplexer for automatic two-sided printing
	HP LaserJet 4300dtn printer (Q2434A)	■ 80 MB RAM, expandable to 416 MB ■ One 100-sheet tray and two 500-sheet trays ■ HP Jetdirect 10/100Base-TX print server for network connection ■ Duplexer for automatic two-sided printing
	HP LaserJet 4350dtn printer (Q5409A)	■ 96 MB RAM, expandable to 512 MB ■ One 100-sheet tray and two 500-sheet trays ■ HP Jetdirect embedded print server for connecting to a 10/100Base-TX network ■ Duplexer for automatic two-sided printing

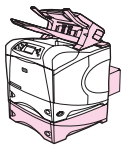
dtns model

Table 1-5 Printer descriptions, dtns model

dtns model	Availability	Configuration
	HP LaserJet 4200dtns printer (Q2446A)	■ 64 MB RAM, expandable to 416 MB ■ One 100-sheet tray and two 500-sheet trays ■ HP Jetdirect 10/100Base-TX print server for network connection ■ Duplexer for automatic two-sided printing ■ 500-sheet stacker output accessory
	HP LaserJet 4300dtns printer (Q2435A)	■ 80 MB RAM, expandable to 416 MB ■ One 100-sheet tray and two 500-sheet trays ■ HP Jetdirect 10/100Base-TX print server for network connection ■ Duplexer for automatic two-sided printing ■ 500-sheet stacker output accessory

dtnsl models

Table 1-6 Printer descriptions, dtnsl model

dtnsl model	Availability	Configuration
	HP LaserJet 4200dtnsl printer (Q2447A)	■ 64 MB RAM, expandable to 416 MB ■ One 100-sheet tray and two 500-sheet trays ■ HP Jetdirect 10/100Base-TX print server for network connection ■ Duplexer for automatic two-sided printing ■ 500-sheet stapler/stacker output accessory
	HP LaserJet 4250dtnsl printer (Q5404A)	■ 80 MB RAM, expandable to 512 MB ■ One 100-sheet tray and two 500-sheet trays ■ HP Jetdirect embedded print server for connecting to a 10/100Base-TX network ■ Duplexer for automatic two-sided printing ■ 500-sheet stapler/stacker output accessory
	HP LaserJet 4300dtnsl printer (Q2448A)	■ 80 MB RAM, expandable to 416 MB ■ One 100-sheet tray and two 500-sheet trays ■ HP Jetdirect 10/100Base-TX print server for network connection ■ Duplexer for automatic two-sided printing ■ 500-sheet stapler/stacker output accessory
	HP LaserJet 4350dtnsl printer (Q5410A)	■ 96 MB RAM, expandable to 512 MB ■ One 100-sheet tray and two 500-sheet trays ■ HP Jetdirect embedded print server for connecting to a 10/100Base-TX network ■ Duplexer for automatic two-sided printing ■ 500-sheet stapler/stacker output accessory

Model and serial numbers

The model number and printer serial number are listed on an identification label located under the top cover on the right side of the printer. The model number is alphanumeric, such as Q2431A for the HP LaserJet 4300 product.

The serial number contains information about the country/region of origin, as well as the revision level, the production code, and the production number of the printer. An example of a serial number is USBB123456.

The label also contains power-rating and regulatory information as shown in the following figure.

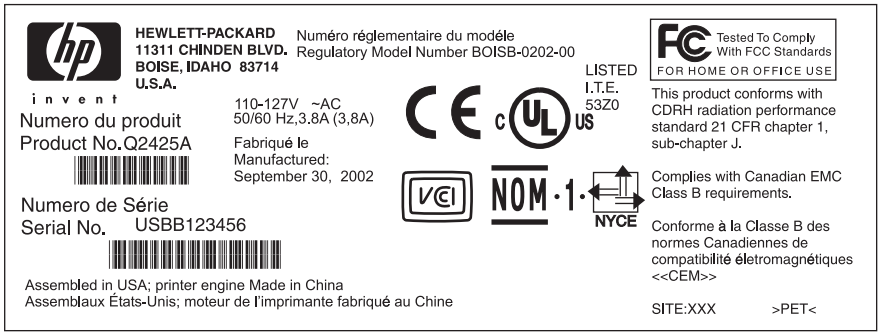


Figure 1-1 Sample model and serial number label, HP LaserJet 4300 printer

Printer overview

Hardware components

Before working with the printer, familiarize yourself with its parts.

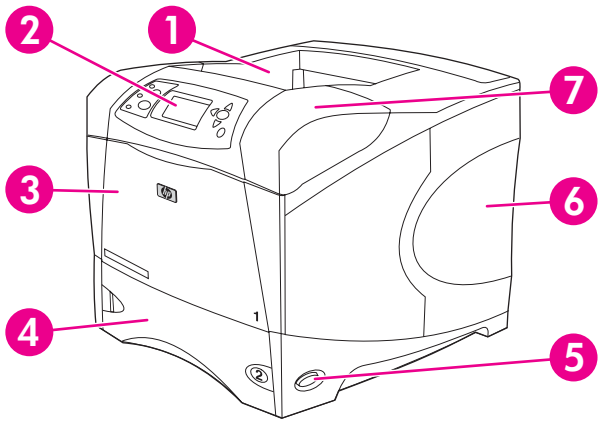


Figure 1-2 Hardware components; front view

1	Top output bin
2	Control panel
3	Tray 1 (pull to open)
4	Tray 2
5	On/off switch
6	Right-side panel (provides access to DIMMs and CompactFlash cards)
7	Top cover/cartridge-access door

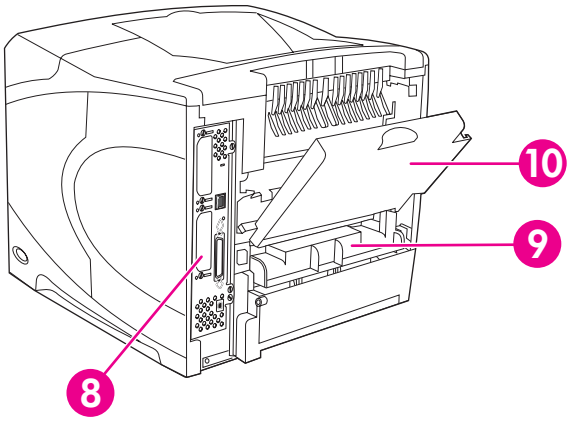


Figure 1-3 Hardware components; rear view

8	Interface ports (see Interface ports)
9	Slot for optional duplexer
10	Rear output bin (pull to open)

Interface ports

The printer has five ports: two EIO slots and three ports for connecting to a computer or a network.

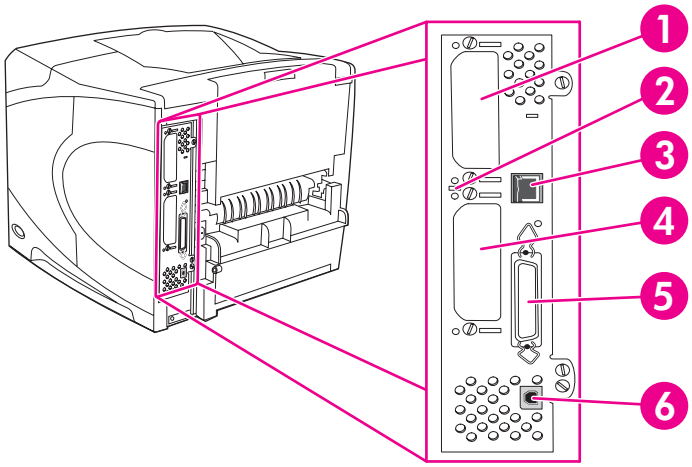


Figure 1-4 Interface ports (HP LaserJet 4250 is shown)

1	EIO slot 2
2	Diagnostic LED
3	Network connection (HP LaserJet 4250/4350 Series printers only)
4	EIO slot 1
5	IEEE 1284B-compliant parallel port
6	USB port (compatible with USB 2.0 full- and high-speed devices; HP LaserJet 4250/4350 Series printers only)

Software components

The printer comes with helpful software, including printer drivers and optional software. For easy printer setup and access to the full range of printer features, HP recommends that the user install the software that is provided.

Check the installation notes and Readme files on the printer CD for additional software and languages. HP software is not available in all languages.

Operating systems and printer components

The printer CD contains the software components and drivers for users and network administrators. The printer drivers that are provided on the CD must be installed in order to take full advantage of printer features. The other programs are recommended, but are not required for operation. Check the installation notes and Readme files on the printer CD for more information.

The CD includes software that is designed for users and network administrators who are operating in the following environments:

- Microsoft® Windows® 98 and Windows Millennium Edition (Me)
- Microsoft Windows NT® 4.0 (parallel and network connections only)
- Microsoft Windows 2000, Windows XP, and Windows Server 2003
- Apple Mac OS version 9.1 and later, and OS X version 10.1 or later

The most recent printer drivers for all supported operating systems are available at www.hp.com/go/lj4200_software, www.hp.com/go/lj4250_software, www.hp.com/go/lj4300_software, or www.hp.com/go/lj4350_software. If you do not have access to the Internet, see the support flyer that came in the printer box for information about obtaining the most recent software.

The following table lists the available software for the printer.

Software	Windows 98/ Me	Windows NT 4.0	Windows 2000/XP/ Server 2003	Mac OS	UNIX®/Linux	OS/2
Windows Installer	x	x	x			
PCL 6	x	x	x			
PCL 5	x	x	x			
PostScript emulation	x	x	x			
HP Web Jetadmin*		x	x		x	
Macintosh Installer				x		
Macintosh PostScript® (PS) Printer Description (PPD) files				x		
IBM drivers*						x
Model scripts*					x	

*Available only on the World Wide Web.

Printer drivers

Drivers included

Printer drivers provide access to the printer features and allow the computer to communicate with the printer (by using a printer language). Check the install notes, Readme, and late-breaking Readme files on the printer CD for additional software and languages.

The following printer drivers are included with the printer. The most recent drivers are available at www.hp.com/go/lj4200_software, www.hp.com/go/lj4250_software, www.hp.com/go/lj4300_software, or www.hp.com/go/lj4350_software. Depending on the configuration of Windows-based computers, the installation program for the printer software automatically checks the computer for Internet access to obtain the latest drivers.

Operating system[1]	PCL 6	PCL 5	PS	PPD[2]
Windows 98, Me	x	x	x	x
Windows NT 4.0	x	x	x	x
Windows 2000, XP, Server 2003	x	x	x	x
Macintosh OS			x	x

1 Not all printer features are available from all drivers or operating systems. See the context-sensitive help in the printer driver for available features.

2 PostScript (PS) Printer Description files (PPDs)

NOTE If your system did not automatically check the Internet for the latest drivers during software installation, download them from www.hp.com/go/lj4200_software, www.hp.com/go/lj4250_software, www.hp.com/go/lj4300_software, or www.hp.com/go/lj4350_software. After you are connected, click **Downloads and Drivers** to find the driver that you want to download.

You can obtain Model Scripts for UNIX and Linux by downloading them from the Internet or by requesting them from an HP-authorized service or support provider. For Linux support see http://www.hp.com/go/linux. For UNIX support see http://www.hp.com/go/jetdirectunix_software. For additional information see the support flyer that came in the printer box.

NOTE If the printer driver that you want is not on the printer CD or is not listed here, check the install notes, Readme, and late-breaking Readme files to see if the printer driver is supported. If it is not supported, have the end-user contact the manufacturer or distributor of the program that is in use and request a driver for the printer.

Additional drivers

The following drivers are not included on the CD, but are available from the Internet.

- OS/2 PCL 5 or PCL 6 printer driver
- OS/2 PS printer driver
- UNIX model scripts
- Linux drivers
- HP OpenVMS drivers

NOTE The OS/2 drivers are available from IBM and are packaged with OS/2. They are not available for Simplified Chinese, Korean, Japanese, or Traditional Chinese.

Select the correct printer driver for your needs

Select a printer driver based on the way that the printer is used. Certain printer features are available only in the PCL 6 drivers. See the printer driver Help for available features.

- Use the PCL 6 driver to take full advantage of printer features. For general office printing, the PCL 6 driver is recommended to provide optimum performance and print quality.
- Use the PCL 5 driver if backward compatibility with previous PCL printer drivers or older printers is necessary.
- Use the PS driver when printing primarily from PostScript-specific programs such as Adobe® and Corel®, for compatibility with PostScript Level 3 needs, or for PS CompactFlash font support.

NOTE The printer automatically switches between PS and PCL printer languages.

Printer driver Help

Each printer driver has Help screens that can be activated by using the Help button, the F1 button on the computer keyboard, or a question-mark symbol in the upper-right corner of the printer driver (depending on the Windows operating system that you are using). You can also open printer-driver Help by right-clicking any item in the driver, and then clicking **What's This?** These Help screens give detailed information about the specific driver. Printer driver Help is separate from software-program Help.

Using the printer drivers

Use one of the following methods to open the printer drivers from the computer:

Operating System	To change the settings for all print jobs until the software program is closed	To change the print-job default settings (for example, to turn on Print on Both Sides by default)	To change the configuration settings (for example, to add a physical option such as a tray or to enable or disable a driver feature such as Allow Manual Duplexing)
Windows 98, NT 4.0, and Me	On the **File** menu in the software program, click **Print**. Select the printer, and then click **Properties**. The steps can vary; this procedure is the most common.	Click **Start**, click **Settings**, and then click **Printers**. Right-click the printer icon, and then select **Properties** (Windows 98 and Me) or **Document Defaults** (Windows NT 4.0).	Click **Start**, click **Settings**, and then click **Printers**. Right-click the printer icon, and then select **Properties**. Click the **Configure** tab.
Windows 2000, XP, and Server 2003	On the **File** menu in the software program, click **Print**. Select the printer, and then click **Properties** or **Preferences**. The steps can vary; this procedure is the most common.	Click **Start**, click **Settings**, and then click **Printers** or **Printers and Faxes**. Right-click the printer icon, and then select **Printing Preferences**.	Click **Start**, click **Settings**, and then click **Printers** or **Printers and Faxes**. Right-click the printer icon, and then select **Properties**. Click the **Device Settings** tab.
Macintosh OS V9.1	On the **File** menu, click **Print**. Change the settings that you want on the various pop-up menus.	On the **File** menu, click **Print**. As you change settings on the pop-up menu, click **Save Settings**.	Click the desktop printer icon. From the **Printing** menu, click **Change Setup**.
Macintosh OS X V10.1	On the **File** menu, click **Print**. Change the settings that you want on the various pop-up menus.	On the **File** menu, click **Print**. Change the settings that you want on the various pop-up menus, and then, on the main pop-up menu, click **Save Custom Setting**. These settings are saved as the **Custom** option. To use the new settings, you must select the **Custom** option every time that you open a program and print.	Delete the printer and reinstall it. The driver will be auto-configured with the new options when it is reinstalled. **NOTE** Use this procedure for AppleTalk connections only. Configuration settings might not be available in Classic mode.
Macintosh OS X V10.2	On the **File** menu, click **Print**. Change the settings that you want on the various pop-up menus.	On the **File** menu, click **Print**. Change the settings that you want on the various pop-up menus, and then, on the **Presets** pop-up menu, click **Save as** and type a name for the preset. These settings are saved in the **Presets** menu. To use the new settings, you must select the saved preset option every time you open a program and print.	Open **Print Center** by selecting the hard drive, clicking **Applications**, clicking **Utilities**, and then double-clicking **Print Center**. Click on the print queue. On the **Printers** menu, click **Show Info**. Click the **Installable Options** menu. **NOTE** Configuration settings might not be available in Classic mode.
Macintosh OS X V10.3	On the **File** menu, click **Print**. Change the settings that you	On the **File** menu, click **Print**. Change the settings that you	Open **Printer Setup Utility** by selecting the hard drive,

Operating System	To change the settings for all print jobs until the software program is closed	To change the print-job default settings (for example, to turn on Print on Both Sides by default)	To change the configuration settings (for example, to add a physical option such as a tray or to enable or disable a driver feature such as Allow Manual Duplexing)
	want on the various pop-up menus.	want on the various pop-up menus, and then, on the **Presets** pop-up menu, click **Save as** and type a name for the preset. These settings are saved in the **Presets** menu. To use the new settings, you must select the saved preset option every time that you open a program and print.	clicking **Applications**, clicking **Utilities**, and then double-clicking **Printer Setup Utility**. Click on the print queue. On the **Printers** menu, click **Show Info**. Click the **Installable Options** menu.

Software for Macintosh computers

The HP installer provides PostScript Printer Description (PPD) files, Printer Dialog Extensions (PDEs), and the HP LaserJet Utility for use with Macintosh computers.

The embedded Web server can be used with Macintosh computers if the printer is connected to a network.

PPDs

Use PPDs in combination with the Apple PS drivers to gain access to the printer features and to allow the computer to communicate with the printer. An installation program for the PPDs, PDEs, and other software is provided on the CD. Use the appropriate PS driver that comes with the operating system.

HP LaserJet Utility

Use the HP LaserJet Utility to control features that are not available in the driver. The illustrated screens make selecting printer features easy. Use the HP LaserJet Utility to perform the following tasks:

- Name the printer, assign it to a zone on the network, and download files and fonts.
- Configure and set the printer for Internet protocol (IP) printing.

NOTE The HP LaserJet Utility is not currently supported for OS X, but the utility is supported for the Classic environment.

Specifications

Hardware specifications

Table 1-7 Product dimensions

Printer model	Width	Depth	Height	Weight[1]
HP LaserJet 4200, 4200n, 4200L, 4200Ln, 4300, and 4300n	418 mm (16.5 inches)	451 mm (17.8 inches)	366 mm (14.4 inches)	20 kg (45 lb)
HP LaserJet 4250, 4250n, 4350, and 4350n	418 mm (16.5 inches)	451 mm (17.8 inches)	377 mm (14.8 inches)	20 kg (45 lb)
HP LaserJet 4200tn and 4300tn	418 mm (16.5 inches)	451 mm (17.8 inches)	488 mm (19.2 inches)	27 kg (60 lb)
HP LaserJet 4200dtn and 4300dtn	418 mm (16.5 inches)	533 mm (21.0 inches)	488 mm (19.2 inches)	30 kg (65 lb)
HP LaserJet 4250tn and 4350tn	418 mm (16.5 inches)	451 mm (17.8 inches)	498 mm (19.6 inches)	27 kg (60 lb)
HP LaserJet 4250dtn and 4350dtn	418 mm (16.5 inches)	533 mm (21.0 inches)	498 mm (19.6 inches)	30 kg (65 lb)
HP LaserJet 4200dtns and 4300dtns	418 mm (16.5 inches)	533 mm (21.0 inches)	680 mm (26.8 inches)	33 kg (73 lb)
HP LaserJet 4200dtnsl and 4300dtnsl	418 mm (16.5 inches)	533 mm (21.0 inches)	740 mm (29.1 inches)	34 kg (76 lb)
HP LaserJet 4250dtnsl and 4350dtnsl	418 mm (16.5 inches)	533 mm (21.0 inches)	740 mm (29.1 inches)	34 kg (74 lb)

[1] Without print cartridge

Table 1-8 Product dimensions, with all doors and trays fully opened

Printer model	Width	Depth	Height
HP LaserJet 4200, 4200n, 4200L, 4200Ln, 4300, and 4300n	418 mm (16.5 inches)	1045 mm (41.1 inches)	547 mm (21.5 inches)
HP LaserJet 4250, 4250n, 4350, and 4350n	418 mm (16.5 inches)	936 mm (38.9 inches)	547 mm (21.5 inches)
HP LaserJet 4200tn, 4200dtn, 4300tn, and 4300dtn	418 mm (16.5 inches)	1045 mm (41.1 inches)	670 mm (26.4 inches)
HP LaserJet 4250tn, 4250dtn, 4350tn, and 4350dtn	418 mm (16.5 inches)	936 mm (38.9 inches)	668 mm (26.3 inches)
HP LaserJet 4200dtns, 4200dtnsl, 4300dtns, and 4300dtnsl	418 mm (16.5 inches)	1045 mm (41.1 inches)	740 mm (29.1 inches)
HP LaserJet 4250dtnsl and 4350dtnsl	418 mm (16.5 inches)	936 mm (38.9 inches)	734 mm (28.9 inches)

Table 1-9 Printer accessories

Accessory	Width	Depth	Height	Weight
500-sheet feeder	418 mm (16.5 inches)	451 mm (17.8 inches)	121 mm (4.8 inches)	7 kg (15.4 lb)
1,500-sheet feeder	416 mm (16.4 inches)	514 mm (20.2 inches)	286 mm (11.3 inches)	13 kg (28.7 lb)
Stacker	211 mm (8.3 inches)	427 mm (16.8 inches)	351 mm (13.8 inches)	4.2 kg (9.3 lb)
Stapler/stacker	211 mm (8.3 inches)	427 mm (16.8 inches)	351 mm (13.8 inches)	4.2 kg (9.3 lb)
Printer cabinet/stand	660 mm (26.0 inches)	660 mm (26.0 inches)	381 mm (15.0 inches)	19.8 kg (43.6 lb)
Duplex-printing accessory	332 mm (13.1 inches)	347 mm (13.7 inches)	152 mm (6.0 inches)	2.5 kg (5.5 lb)
Envelope feeder	328 mm (12.9 inches)	354 mm (13.9 inches)	113 mm (4.5 inches)	2.5 kg (5.5 lb)

Table 1-10 Supplies specifications

Part number	Description	Specification
Q5942A	HP LaserJet Smart print cartridge (LJ 4250/4350)	Average yield 10,000 standard pages
Q5942X	HP LaserJet Smart print cartridge (LJ 4250/4350)	Average yield 20,000 standard pages
Q1338A	HP LaserJet Smart print cartridge (LJ 4200/4200L)	Average yield 12,000 standard pages
Q1339A	HP LaserJet Smart print cartridge (LJ 4300)	Average yield 18,000 standard pages

Electrical specifications

WARNING! Power requirements are based on the country/region where the printer is sold. Do not convert operating voltages. This can damage the printer and void the product warranty.

Table 1-11 Power requirements, HP LaserJet 4200, 4250, 4300 and 4350 Series printers

Specification	110-volt models	220-volt models
Power requirements	110 to 127 volts (± 10%) 50/60 Hz (± 2 Hz)	220 to 240 volts (± 10%) 50/60 Hz (± 2 Hz)
Rated short-term current, HP LaserJet 4200/4200L/4300	8.2 amps	3.3 amps
Rated short-term current, HP LaserJet 4250/4350	10.0 amps	5.0 amps

Table 1-12 Power consumption, HP LaserJet 4200 (average in watts)[1]

Product model	Printing[2]	Ready	PowerSave[4]	Off
HP LaserJet 4200 printer	580 W[3]	21	20.4	0.07
HP LaserJet 4200n printer	580 W[3]	22	20.7	0.07
HP LaserJet 4200tn printer	580 W[3]	23	21.8	0.07
HP LaserJet 4200dtn printer	580 W[3]	24	24.2	0.07
HP LaserJet 4200dtns printer	580 W[3]	26	24.1	0.07
HP LaserJet 4200dtnsL printer	580 W[3]	26	at least 24.2	0.07

1 Values are subject to change. See http://www.hp.com/support/lj4200 for current information.
2 Power numbers are the highest values measured using all standard voltages.
3 HP LaserJet 4200 speed is 35 ppm Letter size and 35 ppm A4 size.
4 PowerSave default activation time is 30 minutes.

Table 1-13 Power consumption, HP LaserJet 4200L (average in watts)[1]

Product model	Printing[2]	Ready	PowerSave[4]	Off
HP LaserJet 4200L printer	580 W[3]	21	20.4	0.07
HP LaserJet 4200Ln printer	580 W[3]	22	20.7	0.07

1 Values are subject to change. See http://www.hp.com/support/lj4200 for current information.
2 Power numbers are the highest values measured using all standard voltages.
3 HP LaserJet 4200L speed is 35 ppm Letter size and 35 ppm A4 size.
4 PowerSave default activation time is 30 minutes.

Table 1-14 Power consumption, HP LaserJet 4250 (average, in watts)[1]

Product model	Printing[2]	Ready	Sleep[4]	Off
HP LaserJet 4250	675 W[3]	20 W	18 W	0.2 W
HP LaserJet 4250n	675 W[3]	20 W	18 W	0.2 W
HP LaserJet 4250tn	675 W[3]	20 W	18 W	0.2 W
HP LaserJet 4250dtn	675 W[3]	21 W	19 W	0.2 W
HP LaserJet 4250dtnsl	750 W[3]	22 W	19 W	0.2 W

1 Values subject to change. See http://www.hp.com/support/lj4250 for current infromation.
2 Power numbers are the highest values measured using all standard voltages.
3 HP LaserJet 4250 speed is 45 ppm Letter size and 43 ppm A4 size.
4 Default time from Ready mode to Sleep = 30 minutes.

Table 1-15 Power consumption, HP LaserJet 4300 (average in watts)[1]

Product model	Printing[2]	Ready	PowerSave[4]	Off
HP LaserJet 4300 printer	685 W[3]	21	21.0	0.07
HP LaserJet 4300n printer	685 W[3]	23	22.7	0.07
HP LaserJet 4300tn printer	685 W[3]	24	22.6	0.07
HP LaserJet 4300dtn printer	685 W[3]	26	24.0	0.07
HP LaserJet 4300dtns printer	685 W[3]	26	24.5	0.07
HP LaserJet 4300dtnsL printer	685 W[3]	27	at least 24.9	0.07

1 Values are subject to change. See http://www.hp.com/support/lj4300 for current information.
2 Power numbers are the highest values measured using all standard voltages.
3 HP LaserJet 4300 speed is 45 ppm Letter size and 45 ppm A4 size.
4 PowerSave default activation time is 30 minutes.

Table 1-16 Power consumption HP LaserJet 4350 (average, in watts)[1]

Product model	Printing[2]	Ready	Sleep[4]	Off
HP LaserJet 4350	800 W[3]	20 W	18 W	0.2 W
HP LaserJet 4350n	800 W[3]	20 W	18 W	0.2 W
HP LaserJet 4350tn	800 W[3]	20 W	19 W	0.2 W
HP LaserJet 4350dtn	800 W[3]	21 W	19 W	0.2 W
HP LaserJet 4350dtnsl	850 W[3]	22 W	20 W	0.2 W

1 Values subject to change. See http://www.hp.com/support/lj4350 for current infromation.
2 Power numbers are the highest values measured using all standard voltages.
3 HP LaserJet 4350 speed is 55 ppm Letter size and 52 ppm A4 size.
4 Default time from Ready mode to Sleep = 30 minutes.

Acoustic emissions

Table 1-17 Sound power and pressure level[1], HP LaserJet 4200[2]

Sound power level	Declared per ISO 9296
Printing[3] (HP LaserJet 4200)	L_{WAd}= 6.8 Bels (A) [69 dB(A)]
Ready (HP LaserJet 4200)	L_{WAd}= 4.0 Bels (A) [40 dB(A)]
Sound pressure level	**Declared per ISO 9296**
Printing[3] (HP LaserJet 4200)	L_{pAm}= 54 dB (A)
Ready (HP LaserJet 4200)	L_{pAm}= 27 dB (A)

1 Values subject to change. See http://www.hp.com/support/lj4200 for current information.
2 Configuration tested (HP LaserJet 4200): Base printer, simplex printing with A4 paper size.
3 HP LaserJet 4200 speed is 35 ppm for A4 size.

Table 1-18 Sound power and pressure level[1], HP LaserJet 4200L[2]

Sound power level	Declared per ISO 9296
Printing[3] (HP LaserJet 4200L)	L_{WAd}= 6.8 Bels (A) [69 dB(A)]
Ready (HP LaserJet 4200L)	L_{WAd}= 4.0 Bels (A) [40 dB(A)]
Sound pressure level	**Declared per ISO 9296**
Printing[3] (HP LaserJet 4200L)	L_{pAm}= 54 dB (A)
Ready (HP LaserJet 4200L)	L_{pAm}= 27 dB (A)

1 Values subject to change. See http://www.hp.com/support/lj4200 for current information.
2 Configuration tested (HP LaserJet 4200L): Base printer, simplex printing with A4 paper size.
3 HP LaserJet 4200L speed is 30 ppm for A4 size.

Table 1-19 Sound power and pressure level[1], HP LaserJet 4250[2]

Sound power level	Declared per ISO 9296
Printing[3] (HP LaserJet 4250)	L_{WAd}= 6.9 Bels (A) [69 dB(A)]
Ready (HP LaserJet 4250)	L_{WAd}= 4.0 Bels (A) [40 dB(A)]
Sound pressure level	**Declared per ISO 9296**
Printing[3] (HP LaserJet 4250)	L_{pAm}= 55 dB (A)
Ready (HP LaserJet 4250)	L_{pAm}= 26 dB (A)

1 Values subject to change. See http://www.hp.com/support/lj4250 for current information.
2 Configuration tested (HP LaserJet 4250): Base printer, simplex printing with A4 paper size.
3 HP LaserJet 4250 speed is 43 ppm for A4 size.

Table 1-20 Sound power and pressure level[1], HP LaserJet 4300[2]

Sound power level	Declared per ISO 9296
Printing[3] (HP LaserJet 4300)	L_{WAd}= 7.0 Bels (A) [71 dB(A)]
Ready (HP LaserJet 4300)	L_{WAd}= 4 Bels (A) [38 dB(A)]
Sound pressure level	**Declared per ISO 9296**
Printing[3] (HP LaserJet 4300)	L_{pAm}= 56 dB (A)
Ready (HP LaserJet 4300)	L_{pAm}= 27 dB (A)

1 Values subject to change. See http://www.hp.com/support/lj4300 for current information.
2 Configuration tested (HP LaserJet 4300): Base printer, simplex printing with A4 paper size.
3 HP LaserJet 4300 speed is 45 ppm for A4 size.

Table 1-21 Sound power and pressure level[1], HP LaserJet 4350[2]

Sound power level	Declared per ISO 9296
Printing[3] (HP LaserJet 4350)	L_{WAd}= 7.1 Bels (A) [71 dB(A)]
Ready (HP LaserJet 4350)	L_{WAd}= 3.8 Bels (A) [38 dB(A)]
Sound pressure level	**Declared per ISO 9296**
Printing[3] (HP LaserJet 4350)	L_{pAm}= 57 dB (A)
Ready (HP LaserJet 4350)	L_{pAm}= 26 dB (A)

1 Values subject to change. See http://www.hp.com/support/lj4350 for current information.
2 Configuration tested (HP LaserJet 4350): Base printer, simplex printing with A4 paper size.
3 HP LaserJet 4350 speed is 52 ppm for A4 size.

Print speed specifications

Table 1-22 Print speed specifications

Printer model	Letter	A4
HP LaserJet 4200	35 ppm	33 ppm
HP LaserJet 4200L	30 ppm	33 ppm
HP LaserJet 4250	45 ppm	43 ppm
HP LaserJet 4300	45 ppm	43 ppm
HP LaserJet 4350	55 ppm	52 ppm

Operating environment

Table 1-23 Temperature and humidity

Environmental condition	HP LaserJet 4200	HP LaserJet 4200L	HP LaserJet 4250	HP LaserJet 4300	HP LaserJet 4350
Printing temperature (printer and print cartridge)	10° to 32°C (50° to 90°F)	10° to 32°C (50° to 90°F)	15° to 32.5°C (59° to 89°F)	10° to 32°C (50° to 90°F)	15° to 32.5°C (59° to 89°F)
Storage/standby temperature (printer and print cartridge)	10° to 32°C (50° to 90°F)	10° to 32°C (50° to 90°F)	-20° to 40°C (-4° to 104°F)	10° to 32°C (50° to 90°F)	-20° to 40°C (-4° to 104°F)
Printing relative humidity	20% to 80%	20% to 80%	10% to 80%	20% to 80%	10% to 80%
Storage/standby relative humidity	20% to 80%	20% to 80%	10% to 90%	20% to 80%	10% to 90%

Media specifications

This section contains information about the sizes, weights, and amount of media that each tray supports.

General guidelines

Some print media might meet all of the guidelines in this manual and still not produce satisfactory results. This problem might be the result of improper handling, unacceptable temperature and humidity levels, or other variables over which HP has no control.

Before purchasing large quantities of print media, always test a sample and make sure that the print media meets the requirements specified in the electronic user guide on the device installation CD and in the *HP LaserJet Printer Family Print Media Guide*. For ordering information, see Ordering parts and supplies.

CAUTION Using print media that does not meet HP specifications can cause problems for the printer, requiring repair. This repair is not covered by the HP warranty or service agreements.

This printer accepts a variety of media, such as cut-sheet paper (including up to 100% recycled-fiber-content paper), envelopes, labels, transparencies, HP LaserJet Tough paper, and custom-size paper. Properties such as weight, composition, grain, and moisture content are important factors affecting printer performance and output quality. Print media that does not meet the guidelines outlined in this manual can cause the following problems:

- Poor print quality
- Increased jams
- Premature wear on the printer, requiring repair

NOTE For best results, use only high-quality media, such as HP-brand paper and print media. Hewlett-Packard Company cannot recommend the use of other brands. Because they are not HP products, HP cannot influence or control their quality. To order HP-quality papers and supplies, go to http://www.hp.com or visit your local HP authorized reseller. It is possible for paper to meet all of the guidelines specified here and still not produce satisfactory results. This might be the result of improper handling, unacceptable temperature and humidity levels, or other variables over which Hewlett-Packard has no control.

Before purchasing a large quantity of media, make sure that it meets the requirements specified here and in the *HP LaserJet Printer Family Print Media Guide*. Go to http://www.hp.com/support/ljpaperguide for more information. Always test media before purchasing a large quantity.

CAUTION Using media that is outside HP specifications can cause problems for the printer, requiring repair. This repair is not covered by the Hewlett-Packard warranty or service agreements.

This section provides the following information about media:

- Supported sizes and weights of media
- Supported types of paper

- Guidelines for using paper
- Paper weight equivalents
  - Labels
  - Overhead transparencies
  - Envelopes
  - Card stock and heavy paper

Supported media weights and sizes

This section contains information about the sizes, weights, and amount of paper and other print media that each tray supports.

Supported-media specifications tables

Table 1-24 Tray 1 supported sizes and weights (all models)

Size	Dimensions[1]	Weight	Capacity[2]
Letter	216 x 279 mm (8.5 x 11 inches)	60 to 200 g/m^2 (16 to 53 lb)	100 sheets of 75 g/m^2 (20 lb) paper
A4	210 x 297 mm (8.3 x 11.7 inches)		
Legal	216 x 356 mm (8.5 x 14 inches)		
Executive	184 x 267 mm (7.3 x 10.5 inches)		
A5	148 x 210 mm (5.8 x 8.3 inches)		
8.5 x 13	216 x 330 mm (8.5 x 13 inches)		
B5 (JIS)	182 x 257 mm (7.2 x 10.1 inches)		
Executive (JIS)	216 x 330 mm (8.5 x 13 inches)		
Double postcard (JIS)	148 x 200 mm (5.8 x 7.9 inches)		
16K	197 x 273 mm (7.8 x 10.8 inches)		
Custom	Minimum: 76 x 127 mm (3 x 5 inches) Maximum: 216 x 356 mm (8.5 x 14 inches)	**NOTE** For best results with custom media, use heavier-weight media. Lighter basis weights yield less consistent results. For additional information about using custom media, see Media specifications.	
Envelope, Commercial #10	105 x 241 mm (4.1 x 9.5 inches)	75 to 105 g/m^2 (20 to 28 lb)	10 envelopes

Table 1-24 Tray 1 supported sizes and weights (all models) (continued)

Size	Dimensions[1]	Weight	Capacity[2]
Envelope, DL ISO	110 x 220 mm (4.3 x 8.7 inches)		
Envelope, C5 ISO	162 x 229 mm (6.4 x 9.0 inches)		
Envelope, B5 ISO	176 x 250 mm (6.9 x 9.8 inches)		
Envelope, Monarch #7-3/4	98 x 191 mm (3.9 x 7.5 inches)		
Transparencies (only use transparencies that are designed for monochrome HP LaserJet printers)	Minimum: 76 x 127 mm (3 x 5 inches) Maximum: 216 x 356 mm (8.5 x 14 inches)	Thickness:0.099 to 0.114 mm (0.0039 to 0.0045 inch)	50 transparencies
Labels	Minimum: 76 x 127 mm (3 x 5 inches) Maximum: 216 x 356 mm (8.5 x 14 inches)	Thickness:0.127 to 0.229 mm (0.005 to 0.009 inch)	50 labels

1 The printer supports a wide range of sizes. Check the printer software for supported sizes.
2 Capacity can vary depending on the media weight and thickness, as well as the environmental conditions.

Table 1-25 Tray 2 and optional 500-sheet tray supported sizes and weights (all models)

Size	Dimensions[1]	Weight	Capacity[2]
Letter	216 x 279 mm (8.5 x 11 inches)	60 to 120 g/m^2 (16 to 32 lb)	500 sheets of 75 g/m^2 (20 lb) paper
A4	210 x 297 mm (8.3 x 11.7 inches)		
Executive	184 x 267 mm (7.3 x 10.5 inches)		
Legal	216 x 356 mm (8.5 x 14 inches)		
8.5 x 13	216 x 330 mm (8.5 x 13 inches)		
Executive (JIS)	216 x 330 mm (8.5 x 13 inches)		
B5 (JIS)	182 x 257 mm (7.2 x 10.1 inches)		
A5	148 x 210 mm (5.8 x 8.3 inches)		
16K	197 x 273 mm (7.8 x 10.8 inches)		

Table 1-25 Tray 2 and optional 500-sheet tray supported sizes and weights (all models) (continued)

Size	Dimensions[1]	Weight	Capacity[2]
Custom	Minimum: 148 x 210 mm (5.8 x 8.3 inches) Maximum: 216 x 356 mm (8.5 x 14 inches)	**NOTE** For additional information about using custom media, see the notes under Media specifications.	

1 The printer supports a wide range of sizes. Check the printer software for supported sizes.
2 Capacity can vary depending on the media weight and thickness, as well as the environmental conditions.

Table 1-26 Optional 1,500-sheet tray supported sizes and weights

Size	Dimensions	Weight	Capacity[1]
Letter	216 x 279 mm (8.5 x 11 inches)	60 to 120 g/m^2 (16 to 32 lb)	1,500 sheets of 75 g/m^2 (20 lb) paper
A4	210 x 297 mm (8.3 x 11.7 inches)		
Legal	216 x 356 mm (8.5 x 14 inches)		

1 Capacity can vary depending on paper weight and thickness, as well as the environmental conditions.

Table 1-27 Optional duplexer supported sizes and weights

Size	Dimensions	Weight
Letter	216 x 279 mm (8.5 x 11 inches)	60 to 120 g/m^2 (16 to 32 lb)
A4	210 x 297 mm (8.3 x 11.7 inches)	
Executive	184 x 267 mm (7.3 x 10.5 inches)	
Legal	216 x 356 mm (8.5 x 14 inches)	
B5 (JIS)	182 x 257 mm (7.2 x 10.1 inches)	
A5	148 x 210 mm (5.8 x 8.3 inches)	

Table 1-28 Optional envelope feeder supported sizes and weights

Size	Dimensions	Weight	Capacity
Monarch #7-3/4	98 x 191 mm (3.9 x 7.5 inches)	75 to 105 g/m^2 (20 to 28 lb)	Up to 75 envelopes
Commercial #10	105 x 241 mm (4.1 x 9.5 inches)		
DL ISO	110 x 220 mm (4.3 x 8.7 inches)		
C5 ISO	162 x 229 mm (6.4 x 9.0 inches)		

Table 1-29 Optional stacker or stapler/stacker supported sizes and weights

Size	Dimensions[1]	Weight	Capacity[2]
Stacker or stacker part of stapler/stacker only			
Letter	216 x 279 mm (8.5 x 11 inches)	60 to 120 g/m^2 (16 to 32 lb)	500 sheets of 75 g/m^2 (20 lb) paper
A4	210 x 297 mm (8.3 x 11.7 inches)		
Executive	184 x 267 mm (7.3 x 10.5 inches)		
Legal	216 x 356 mm (8.5 x 14 inches)		
B5 (JIS)	182 x 257 mm (7.2 x 10.1 inches)		
A5	148 x 210 mm (5.8 x 8.3 inches)		
Custom	Minimum: 148 x 210 mm (5.8 x 8.3 inches) Maximum: 216 x 356 mm (8.5 x 14 inches)	**NOTE** For additional information about using custom media refer to the note available in General guidelines.	
Stapler part of stapler/stacker only[3]			
Letter	216 x 279 mm (8.5 x 11 inches)	60 to 120 g/m^2 (16 to 32 lb)	15 sheets of 75 g/m^2 (20 lb) paper
A4	210 x 297 mm (8.3 x 11.7 inches)		
Legal	216 x 356 mm (8.5 x 14 inches)		

1 The printer supports a wide range of sizes. Check the printer software for supported sizes.
2 Capacity can vary depending on the paper weight and thickness, as well as the environmental conditions.
3 All sizes can be stacked, but only letter, legal, and A4 can be stapled.

Paper and print media

Category	Specifications
Acid content	5.5 pH to 8.0 pH
Caliper	0.094 to 0.18 mm (3.0 to 7.0 mils)
Curl in ream	Flat within 5 mm (0.02 inch)
Cut-edge conditions	Cut with sharp blades, leaving no visible fray
Fusing compatibility	Must not scorch, melt, offset, or release hazardous emissions when heated to 200° C (392° F) for 0.1 second
Grain	Long grain
Moisture content	4% to 6% by weight
Smoothness	100 to 250 Sheffield

For complete print-media specifications for all HP LaserJet printers, see the *HP LaserJet Printer Family Print Media Guide*. To download the guide in PDF format, go to www.hp.com/support/ljpaperguide.

Printing and storage environment

Ideally, the printing and paper-storage environment should be at or near room temperature, and not too dry or too humid. Remember that paper is hygroscopic: it absorbs and loses moisture rapidly.

Heat works with humidity to damage paper. Heat causes the moisture in paper to evaporate, while cold causes it to condense on the sheets. Heating systems and air conditioners remove most of the humidity from a room. As paper is opened and used, it loses moisture, causing streaks and smudging. Humid weather or water coolers can cause the humidity to increase in a room. As paper is opened and used it absorbs any excess moisture, causing light print and dropouts. Also, as paper loses and gains moisture it can distort. This can cause jams.

As a result, paper storage and handling are as important as the paper-making process itself. Paper-storage environmental conditions directly affect the feed operation.

Care should be taken not to purchase more paper than can be easily used in a short time (about 3 months). Paper stored for long periods might experience heat and moisture extremes, which can cause damage. Planning is important to prevent damage to a large supply of paper.

Unopened paper in sealed reams can remain stable for several months before use. Opened packages of paper have more potential for environmental damage, especially if they are not wrapped with a moisture-proof barrier.

The paper storage environment should be properly maintained to ensure optimum printer performance. The required condition is 20° to 24°C (68° to 75°F), with a relative humidity of

45% to 55%. The following guidelines should be helpful when evaluating the paper-storage environment:

- Paper should be stored at or near room temperature.
- The air should not be too dry or too humid (because of the hygroscopic properties of paper).
- The best way to store an opened ream of paper is to rewrap it tightly in its moisture-proof wrapping. If the printer environment is subject to extremes, unwrap only the amount of paper that is to be used during the day to prevent unwanted moisture changes.

Supported types of media

The printer supports the following types of paper and other print media:

- Plain
- Letterhead
- Prepunched
- Bond
- Color
- Rough
- Preprinted
- Transparency
- Labels
- Recycled
- Card stock
- Envelopes

Guidelines for using paper

For best results, use conventional 75- to 90-g/m^2 (20- to 24-lb) paper. Make sure that the paper is of good quality, and free of cuts, nicks, tears, spots, loose particles, dust, wrinkles, voids, and curled or bent edges. If you are unsure what type of paper you are loading (such as bond or recycled), check the label on the package of paper.

CAUTION Some paper might cause print-quality problems, jamming, or damage to the printer.

Symptom	Problem with paper	Solution
Poor print quality or toner adhesion	■ Too moist, too rough, too smooth, or embossed ■ Ragged edges ■ Faulty paper lot	■ Try another kind of paper, one that is between 100 to 250 Sheffield, with 4 to 6% moisture content. ■ Change the fuser mode. See Print-quality submenu.
Dropouts, jamming, curl	■ Stored improperly	■ Store paper flat in its moisture-proof wrapping.
Increased gray background shading	■ Too heavy	■ Use lighter paper. ■ Use a higher toner-density setting. See Print-quality submenu.
	■ Too smooth	■ Use less-smooth, rougher paper.
Excessive curl, problems with feeding	■ Too moist, wrong grain direction, or short-grain construction	■ Use the rear output bin. ■ Turn the paper stack over in the tray. ■ Use long-grain paper. ■ Store paper in a drier environment. ■ Change the fuser mode. See Print-quality submenu.

NOTE Do not use letterhead paper that is printed with low-temperature inks, such as those used in some types of thermography. Do not use raised letterhead.The printer uses heat and pressure to fuse toner to the paper. Make sure that any colored media or preprinted forms use inks that are compatible with the printer's temperature of 230°C (446°F) for 0.05 second. Avoid using media that has been damaged from being previously used in a printer or copier. (Do not print on both sides of envelopes, transparencies, or labels.)

Paper weight equivalence table

Use the following table to determine approximate equivalent points in weight specifications other than U.S. bond weight. For example, to determine the equivalent of 20-lb U.S. bond weight paper in U.S. cover weight, locate the bond weight (in row 3, second column) and scan across the row to the cover weight (in the fourth column). The equivalent is 28 lb.

Table 1-30 Paper weight equivalents

U.S. postcard[1] thickness (mm)	U.S. bond weight (lb)	U.S. text/ book weight[2] (lb)	U.S. cover weight (lb)	U.S. Bristol weight (lb)	U.S. index weight (lb)	U.S. tag weight (lb)	Metric weight (g/ m^2)
	16[3]	41	22	27	33	37	60[3]
	17	43	24	29	35	39	64[3]
	20[3]	50[23]	28	34	42	46	75[3]
	21	54	30	36	44	49	80[3]
	24[3]	60[23]	33	41	50	55	90[3]
	27	68	37	45	55	61	100[3]
	28[3]	70[23]	39	49	58	65	105
	29	74	41	50	61	68	110[3]
	32[3]	80[23]	44	55	67	74	120[3]
	36[3]	90	50[3]	62	75	83	135[3]
0.18	39	100[3]	55	67[3]	82	91	148
	40	101	55	68	83	92	150[3]
0.20	43	110	60[3]	74	90[3]	100[3]	163
	45	115	63	77	94	104	170[3]
0.23	47	119	65[3]	80	97	108	176
	51	128	70	86	105	117	190[3]
	53	134	74	90	110[3]	122	200
	54	137	75	93	113	125[3]	203
	58	146	80[3]	98	120	133	216
	65	165	90	111	135	150	244
	66	169	92	114	138	154	250
	67	171	94	115	140[3]	155	253
	70	178	98	120[3]	146	162	264
	72	183	100[3]	123	150	166	271

1 U.S. postcard measurements are approximate. Use for reference only.

2 Text and book grades actually calculate out to 51, 61, 71, and 81, but are standardized to book/text weights of 50, 60, 70, and 80.

3 Standard weight for the grade.

Envelopes

If you do not have an optional envelope feeder, always print on envelopes from tray 1. If envelopes curl or jam, try opening the rear output bin.

CAUTION Do not use the duplexer to print on envelopes. Damage to the printer might result. Do not send envelopes to the stacker or stapler/stacker. Damage to the stacker or stapler/stacker might result.

Envelope construction

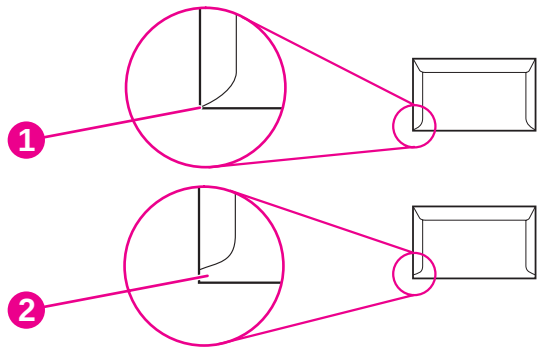
Envelope construction is critical. Envelope fold lines can vary considerably, not only between manufacturers but also within a box from the same manufacturer. Successful printing on envelopes depends upon the quality of the envelopes. When selecting envelopes, consider the following components:

- **Weight:** The weight of the envelope paper should not exceed 105 g/m^2 (28 lb) or jamming might occur.
- **Construction:** Before printing, envelopes should lie flat with less than 6 mm (0.25 inch) curl, and should not contain air.
- **Condition:**Envelopes should not be wrinkled, nicked, or otherwise damaged.
- **Temperature:** You should use envelopes that are compatible with the heat and pressure of the printer.
- **Size:** You should use only envelopes within the following size ranges.
  - **Minimum**: 76 x 127 mm (3 x 5 inches)
  - **Maximum**: 216 x 356 mm (8.5 x 14 inches)

NOTE Use only tray 1 or the optional envelope feeder to print on envelopes. You might experience some jams when using any media that has a length less than 178 mm (7 inches). This might be caused by paper that has been affected by environmental conditions. For optimum performance, make sure that you are storing and handling the paper correctly (see Printing and storage environment). Choose envelopes in the printer driver.

Envelopes with double side-seams

Double side-seam construction has vertical seams at both ends of the envelope rather than diagonal seams. This style might be more likely to wrinkle. Make sure that the seam extends all the way to the corner of the envelope, as illustrated.



1	Acceptable envelope construction
2	Unacceptable envelope construction

Envelopes that have adhesive strips or flaps

Envelopes that have a peel-off adhesive strip or more than one flap that folds over to seal must contain adhesives that are compatible with the heat and pressure in the printer. The extra flaps and strips might cause wrinkling, creasing, or jams and might even damage the fuser.

Envelope margins

The following are typical address margins for a commercial #10 or DL envelope.

Type of address	Top margin	Left margin
Return address	15 mm (0.6 inch)	15 mm (0.6 inch)
Delivery address	51 mm (2.0 inches)	89 mm (3.5 inches)

NOTE For the best print quality, position margins no closer than 15 mm (0.6 inch) from the edges of the envelope. Avoid printing over the area where the envelope seams meet.

Envelope storage

Appropriate envelope storage helps contribute to good print quality. Envelopes should be stored flat. If air is trapped in an envelope, creating an air bubble, then the envelope might wrinkle during printing.

Labels

Use tray 1 to print on labels. Labels are multiple-layer media that typically consists of a face sheet (the printable surface), pressure-sensitive adhesive, and a liner (a carrier sheet coated with a release agent). Labels that are used in the HP LaserJet printer must be specifically designed for laser printers. If other labels are used, you risk labels peeling or adhesive contamination that can severely damage the printer. All materials in the laser-label stock must be compatible with the heat and pressure of the fusing process.

CAUTION To avoid damaging the printer, use only labels that are recommended for use in laser printers. To prevent serious jams, always use tray 1 to print on labels and always use the rear output bin. Do not use the duplexer to print on labels and do not leave the printer default set to **duplex=on**. Do not staple labels in the stapler/stacker. Never print on the same sheet of labels more than once or print on a partial sheet of labels.

When selecting labels, consider the quality of each component:

- **Adhesives:** The adhesive material should be stable at 200°C (392°F), the printer fusing temperature.
- **Arrangement:** Only use labels that have no exposed backing between them. Labels can peel off sheets that have spaces between the labels, causing serious jams.
- **Curl:** Before printing, labels must lie flat with no more than 13 mm (0.5 inch) of curl in any direction.
- **Condition:** Do not use labels that contain wrinkles, bubbles, or other indications of separation.

NOTE Choose labels in the printer driver.

Transparencies

Use tray 1 to print on overhead transparencies. The overhead transparency film must be designed specifically for use with monochrome laser printers. Photocopy transparency film might not be compatible with laser printers because of higher temperature and stiffness requirements.

Overhead transparency film is very smooth and must contain a topcoat that provides the correct electrical and toner-adhesion properties. A transparency that is made of poor materials or that is too thin can easily melt in the fuser and damage the printer.

Overhead transparency materials must be compatible with the heat and pressure of the fusing process.

CAUTION To avoid damaging the printer, use only transparencies that are recommended for use in monochrome laser printers. Do not attempt to duplex or print on overhead transparencies or leave the printer default set to **duplex=on**. Damage to the printer might result. Do not staple transparencies in the stapler/stacker.

Transparencies that are used in the printer must be able to withstand the printer's maximum temperature of 230°C (446°F) for 0.05 seconds. Close the rear output bin to send transparencies to the top output bin. If you have problems printing on transparencies, use tray 1 and send printed transparencies to the top output bin. Be sure to remove each transparency from the output bin as it is printed to keep the transparencies from sticking together.

Card stock and heavy paper

Many types of card stock can be printed on from tray 1, including index cards and postcards. Some card stock performs well because its construction is better suited for feeding through a laser printer.

For optimum printer performance, do not use media that is heavier than 200 g/m^2 (53 lb) in tray 1 or 120 g/m^2 (32 lb) in other trays. Paper that is too heavy might cause misfeeds, stacking problems, jams, poor toner fusing, poor print quality, or excessive mechanical wear.

The stacker and stapler/stacker do not support card stock.

CAUTION Do not use the duplexer to print on card stock or paper heavier than 120 g/m^2 (35 lb), or leave the printer default set to **duplex=on**. Damage to the printer might result. Do not attempt to use the stacker or stapler/stacker with card stock.

NOTE Printing on heavier paper might be possible if the tray is not filled to capacity, and if short-grain paper that has a smoothness rating of 100 to 180 Sheffield is used.

Card stock construction

Card stock construction

- **Smoothness:** Card stock should have smoothness in the range of 100 to 180 Sheffield.
- **Construction**: Card stock should lie flat with less than 5 mm (0.2 inch) of curl. It should be short-grain paper to improve feeding and reduce wear on the printer.
- **Condition:** Make sure that card stock is not wrinkled, nicked, or otherwise damaged.
- **Sizes:** Use only card stock within the following size ranges:
  - Minimum: 76 x 127 mm (3 x 5 inches)
  - Maximum: 216 x 356 mm (8.5 x 14 inches)

Before loading card stock in tray 1, make sure that it is regular in shape and not damaged. Also, make sure that the cards are not stuck together.

Card stock guidelines

- If cards curl or jam, try printing from tray 1 and opening the rear output bin.
- Set margins at least 6 mm (0.24 inch) away from the edges of the stoc.

Types of media to avoid

The following characteristics can affect the performance of the HP LaserJet 4200, 4250, 4300 and 4350 Series printers printer unless the paper or other print media that is used is specifically designed to work with HP LaserJet printers.

- Print media that is very rough, highly textured, or heavily embossed.
- Multipart forms.
- Print media that offsets materials or discolors.
- Print media that is damaged, curled, wrinkled, or irregularly shaped.
- Paper that is extremely shiny or glossy.
- Paper, labels, envelopes, or transparencies that produce emissions or melt when exposed to a fusing temperature of 230°C (446°F) for 0.05 second.
- Media coatings, dyes, or inks that produce emissions or melt when exposed to a fusing temperature of 230°C (446°F) for 0.05 second.
- Envelopes that have an open flap with exposed adhesive that seals the envelope when the flap is closed.
- Envelopes that contain clasps, snaps, tie strings, windows, or synthetic materials. These materials can severely damage the printer.
- Envelopes that are not square, straight, or constructed correctly.
- Envelopes that have a basis weight less than 60 g/m^2 (16 lb) or greater than 105 g/m^2 (28 lb).
- Envelopes that have baggy construction or folds that are not sharply creased.

NOTE Some media types might not work in the printer because of differences in manufacturer specifications or environmental conditions.

Hewlett-Packard limited warranty statement

PRODUCT	DURATION OF LIMITED WARRANTY
HP LaserJet 4200, 4200n, 4200tn, 4200dtn, 4200dtns, 4200dtnsL, 4200L, 4200Ln, 4250, 4250n, 4250tn, 4250dtn, 4250dtnsl, 4300, 4300n, 4300tn, 4300dtn, 4300dtns, 4300dtnsL, 4350, 4350n, 4350tn, 4350dtn, and 4350dtnsl	One-year

HP warrants to you, the end-user customer, that HP hardware and accessories will be free from defects in materials and workmanship after the date of purchase, for the period specified above. If HP receives notice of such defects during the warranty period, HP will, at its option, either repair or replace products which prove to be defective. Replacement products may be either new or equivalent in performance to new.

HP warrants to you that HP software will not fail to execute its programming instructions after the date of purchase, for the period specified above, due to defects in material and workmanship when properly installed and used. If HP receives notice of such defects during the warranty period, HP will replace software which does not execute its programming instructions due to such defects.

HP does not warrant that the operation of HP products will be uninterrupted or error free. If HP is unable, within a reasonable time, to repair or replace any product to a condition as warranted, you will be entitled to a refund of the purchase price upon prompt return of the product.

HP products may contain remanufactured parts equivalent to new in performance or may have been subject to incidental use.

Warranty does not apply to defects resulting from (a) improper or inadequate maintenance or calibration, (b) software, interfacing, parts or supplies not supplied by HP, (c) unauthorized modification or misuse, (d) operation outside of the published environmental specifications for the product, or (e) improper site preparation or maintenance.

TO THE EXTENT ALLOWED BY LOCAL LAW, THE ABOVE WARRANTIES ARE EXCLUSIVE AND NO OTHER WARRANTY OR CONDITION, WHETHER WRITTEN OR ORAL, IS EXPRESSED OR IMPLIED AND HP SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTIES OR CONDITIONS OF Me RCHANTABILITY, SATISFACTORY QUALITY, AND FITNESS FOR A PARTICULAR PURPOSE. Some countries/regions, states or provinces do not allow limitations on the duration of an implied warranty, so the above limitation or exclusion might not apply to you. This warranty gives you specific legal rights and you might also have other rights that vary from country/region to country/region, state to state, or province to province. HP's limited warranty is valid in any country/region or locality where HP has a support presence for this product and where HP has marketed this product. The level of warranty service you receive may vary according to local standards. HP will not alter form, fit or function of the product to make it operate in a country/region for which it was never intended to function for legal or regulatory reasons.

TO THE EXTENT ALLOWED BY LOCAL LAW, THE REMEDIES IN THIS WARRANTY STATEMENT ARE YOUR SOLE AND EXCLUSIVE REMEDIES. EXCEPT AS INDICATED ABOVE, IN NO EVENT WILL HP OR ITS SUPPLIERS BE LIABLE FOR LOSS OF DATA OR FOR DIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL (INCLUDING LOST PROFIT OR DATA), OR OTHER DAMAGE, WHETHER BASED IN CONTRACT, TORT, OR OTHERWISE. Some countries/regions, states or provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

THE WARRANTY TERMS CONTAINED IN THIS STATEMENT, EXCEPT TO THE EXTENT LAWFULLY PERMITTED, DO NOT EXCLUDE, RESTRICT OR MODIFY AND ARE IN ADDITION TO THE MANDATORY STATUTORY RIGHTS APPLICABLE TO THE SALE OF THIS PRODUCT TO YOU.

Print Cartridge Limited Warranty Statement

This HP Print Cartridge is warranted to be free from defects in materials and workmanship.

This warranty does not apply to print cartridges that (a) have been refilled, refurbished, remanufactured or tampered with in any way, (b) experience problems resulting from misuse, improper storage, or operation outside of the published environmental specifications for the printer product or (c) exhibit wear from ordinary use.

To obtain warranty service, please return the product to place of purchase (with a written description of the problem and print samples) or contact HP customer support. At HP's option, HP will either replace products that prove to be defective or refund your purchase price.

TO THE EXTENT ALLOWED BY LOCAL LAW, THE ABOVE WARRANTY IS EXCLUSIVE AND NO OTHER WARRANTY OR CONDITION, WHETHER WRITTEN OR ORAL, IS EXPRESSED OR IMPLIED AND HP SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTIES OR CONDITIONS OF Me RCHANTABILITY, SATISFACTORY QUALITY, AND FITNESS FOR A PARTICULAR PURPOSE.

TO THE EXTENT ALLOWED BY LOCAL LAW, IN NO EVENT WILL HP OR ITS SUPPLIERS BE LIABLE FOR DIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL (INCLUDING LOST PROFIT OR DATA), OR OTHER DAMAGE, WHETHER BASED IN CONTRACT, TORT, OR OTHERWISE.

THE WARRANTY TERMS CONTAINED IN THIS STATEMENT, EXCEPT TO THE EXTENT LAWFULLY PERMITTED, DO NOT EXCLUDE, RESTRICT OR MODIFY AND ARE IN ADDITION TO THE MANDATORY STATUTORY RIGHTS APPLICABLE TO THE SALE OF THIS PRODUCT TO YOU.

Service approach

Repair of the printer normally begins by using the printer's internal diagnostics in conjunction with the troubleshooting procedures that are described in chapter 6. When a faulty part is located, repair is generally accomplished by assembly-level replacement of field-replaceable units (FRUs) (listed in chapter 7). Some mechanical assemblies might be repaired at the subassembly level. Hewlett-Packard Company does not support replacement of components on printed circuit boards.

Regulatory information

This section contains regulatory statements for this product.

FCC regulations

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy. If this equipment is not installed and used in accordance with the instructions, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation; the presence of interference can be determined by turning the equipment off and on. If this equipment does cause harmful interference to radio or television communications, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase distance between equipment and receiver.
- Connect equipment to an outlet on a circuit different from that to which the receiver is located.
- Consult your dealer or an experienced radio/television technician.

NOTE Any changes or modifications to the printer that are not expressly approved by HP could void the user's authority to operate this equipment.

Use of a shielded interface cable is required to comply with the Class B limits of Part 15 of FCC rules.

Environmental product stewardship program

This section explains HP's environmental stewardship initiatives.

Protecting the environment

Hewlett-Packard Company is committed to providing quality products in an environmentally sound manner. This product has been designed with several attributes to minimize impacts on our environment.

Ozone production

This product generates no appreciable ozone gas (O_3).

Energy consumption

Power usage drops significantly while in PowerSave mode, which saves natural resources and saves money without affecting the high performance of this product. This product qualifies for ENERGY STAR® (Printers, Version 3.0), which is a voluntary program to encourage the development of energy-efficient office products.

ENERGY STAR® is a U.S. registered service mark owned by the U.S. government. As an ENERGY STAR partner, Hewlett-Packard Company has determined that this product meets ENERGY STAR Guidelines for energy efficiency. For more information, see http://www.energystar.gov.

Toner consumption

EconoMode uses significantly less toner, which might extend the life of the print cartridge.

Paper use

This product's automatic duplex feature (two-sided printing) and n-up printing (multiple pages printed on one page) capabilities can reduce media usage and the resulting demands on natural resources. (The automatic duplex feature is available only for models that include a built-in duplexer. Manual duplexing is available for all models.)

Plastics

Plastic parts over 25 grams are marked according to international standards that enhance the ability to identify plastics for recycling purposes at the end of the product's life.

HP LaserJet printing supplies

In many countries/regions, the printing supplies (for example, print cartridge and fuser) can be returned to HP through the HP Printing Supplies Environmental Program. This easy-to-use and free take-back program is available in more than 30 countries/regions. Multilingual program information and instructions are included in every new HP LaserJet print cartridge and supplies package.

HP Printing Supplies Returns and Recycling Program Information

Since 1992, HP has offered HP LaserJet supplies return and recycling free of charge in 86% of the world market where HP LaserJet supplies are sold. Postage-paid and pre-addressed labels are included within the instruction guide in most HP LaserJet print cartridge boxes. Labels and bulk boxes are also available through the Web site at http://www.hp.com/recycle. More than 10 million HP LaserJet print cartridges were recycled globally in 2002 through the HP Planet Partners supplies recycling program. This record number represents 26 million pounds of print cartridge materials that were diverted from landfills. Worldwide, HP recycled an average of 80% of the print cartridge by weight, consisting primarily of plastic and metals. Recycled plastics and metals are used to make new products, such as HP products, plastic trays, and spools. The remaining materials are disposed of in an environmentally responsible manner.

- **U.S. returns** For a more environmentally responsible return of used cartridges and supplies, HP encourages the use of bulk returns. Simply bundle two or more cartridges together and use the single, prepaid, preaddressed UPS label that is supplied in the package. For more information in the U.S., call 800-340-2445 or visit the HP LaserJet Supplies Web site at http://www.hp.com/recycle.
- **Non-U.S. returns** Non-U.S. customers should call the local HP Sales and Service Office or visit the http://www.hp.com/recycle Web site for mpre information about the availability of the HP Supplies Returns and Recycling Program.

Paper

This product is capable of using recycled papers when the paper meets the guidelines outlined in the *HP LaserJet Printer Family Print Media Guide*. Go to http://www.hp.com/support/ljpaperguide to download this guide in .PDF format. This product is suitable for the use of recycled media according to EN12281:2002.

Material restrictions

This HP product does not contain added mercury.

This HP product might initially contain lead in solder that might require special handling at end-of-life. This product will eventually switch to lead-free construction in compliance with the European Waste from Electrical and Electronic Equipment (WEEE) law.

This HP product contains a battery that might require special handling at end-of-life.

Type	Lithium Carbon Monofluoride (BR1632), 3 Volt, button-style battery, 1.5 grams
Materials	Mercury-free, cadmium-free
Location	On printed circuit board
User removable	No

For recycling information, you can contact http://www.hp.com/recycle or contact your local authorities or the Electronics Industry Alliance: http://www.eiae.org.

Material safety data sheet

Material Safety Data Sheets (MSDS) for supplies that contain chemical substances (for example, toner) can be obtained by contacting the HP Web site at http://www.hp.com/go/msds or http://www.hp.com/hpinfo/community/environment/productinfo/safety.

For more information

To obtain information about the following environmental topics, visit http://www.hp.com/go/environment or http://www.hp.com/hpinfo/community/environment/productinfo/safety.

- Product environmental profile sheet for this and many related HP products.
- HP's commitment to the environment
- HP's environmental management system
- HP's end-of-life product return and recycling program
- Material Safety Data Sheets (MSDS)

Regulatory statements

Declaration of Conformity

according to ISO/IEC Guide 22 and EN 45014

Manufacturer's Name:	Hewlett-Packard Company
Manufacturer's Address:	11311 Chinden Boulevard, Boise, Idaho 83714-1021, USA

declares, that the product

Product Name:	HP LaserJet 4200 Series, HP LaserJet 4200L Series, and HP LaserJet 4300 Series printer
Regulatory Model Number[3]:	BOISB-0202-00, BOISB-0204–00
Model Number:	Q2425A, Q3993A, Q2431A
Product Options:	All

conforms to the following Product Specifications:

Safety:	IEC 60950:1999 / EN60950: 2000
	IEC 60825-1:1993 +A1 +A2 / EN 60825-1:1994 +A11 +A2 (Class 1 Laser/LED Product)
	GB4943-2001
EMC:	CISPR 22:1997 / EN 55022:1998 Class B[1]
	EN 61000-3-2:1995 + A14
	EN 61000-3-3:1995
	EN 55024:1998
	FCC Title 47 CFR, Part 15 Class B[2] / ICES-003, Issue 3
	GB9254-1998, GB17625.1-1998

Supplementary Information:

The product herewith complies with the requirements of the EMC Directive 89/336/EEC and the Low Voltage Directive 73/23/EEC, and carries the CE-Marking accordingly.

1) The product was tested in a typical configuration with Hewlett-Packard Personal Computer Systems.

2) This Device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

3) For regulatory purposes, this product is assigned a Regulatory model number. This number should not be confused with the marketing name or the product number(s).

Boise, Idaho , USA

17 April 2002

For regulatory topics only:

Australia Contact:	Product Regulations Manager, Hewlett-Packard Australia Ltd.,, 31-41 Joseph Street, Blackburn, Victoria 3130, Australia,
European Contact:	Your Local Hewlett-Packard Sales and Service Office or Hewlett-Packard GmbH, Department HQ-TRE / Standards Europe,, Herrenberger Strasse 140, , D-71034, Böblingen, (FAX: +49-7031-14-3143),
USA Contact:	Product Regulations Manager, Hewlett-Packard Company,, PO Box 15, Mail Stop 160, Boise, ID 83707-0015, , (Phone: 208-396-6000),

Declaration of Conformity

according to ISO/IEC Guide 22 and EN 45014

Manufacturer's Name:	Hewlett-Packard Company

Declaration of Conformity

Manufacturer's Address:	11311 Chinden Boulevard, Boise, Idaho 83714-1021, USA
declares, that the product	
Product Name:	HP LaserJet 4250 and LaserJet 4350 printer
Regulatory Model Number[3]:	BOISB-0309-00
Model Number:	Q5400A, Q5407A Including optional duplex accesssory (Q2439B), optional 500-sheet input tray (Q2440B), optional 1500-Sheet Input Tray (Q2440B), and optional 500-sheet stapler/stacker accessory (Q2443B)
Product Options:	ALL

conforms to the following Product Specifications:

Safety:	IEC 60950:1999 / EN60950: 2000
	IEC 60825-1:1993 +A1 +A2 / EN 60825-1:1994 +A11 +A2 (Class 1 Laser/LED Product)
	GB4943-2001
EMC:	CISPR 22:1997 / EN 55022:1998 Class B[1]
	EN 61000-3-2:1995 + A14
	EN 61000-3-3:1995 + A1
	EN 55024:1998
	FCC Title 47 CFR, Part 15 Class B[2] / ICES-003, Issue 4
	GB9254-1998, GB17625.1-1998

Supplementary Information:

The product herewith complies with the requirements of the EMC Directive 89/336/EEC and the Low Voltage Directive 73/23/EEC, and carries the CE-Marking accordingly.

1) The product was tested in a typical configuration with Hewlett-Packard Personal Computer Systems.

2) This Device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

3) For regulatory purposes, this product is assigned a Regulatory model number. This number should not be confused with the marketing name or the product number(s).

Boise, Idaho , USA

March 12, 2004

For regulatory topics only:

Australia Contact:	Product Regulations Manager, Hewlett-Packard Australia Ltd.,, 31-41 Joseph Street, Blackburn, Victoria 3130, Australia,
European Contact:	Your Local Hewlett-Packard Sales and Service Office or Hewlett-Packard GmbH, Department HQ-TRE / Standards Europe,, Herrenberger Strasse 140, , D-71034, Böblingen, (FAX: +49-7031-14-3143),
USA Contact:	Product Regulations Manager, Hewlett-Packard Company,, PO Box 15, Mail Stop 160, Boise, ID 83707-0015, , (Phone: 208-396-6000),

Country-/region-specific safety statements

Laser safety statement

The Center for Devices and Radiological Health (CDRH) of the U.S. Food and Drug Administration has implemented regulations for laser products manufactured since August 1, 1976. Compliance is mandatory for products marketed in the United States. The printer is certified as a "Class 1" laser product under the U.S. Department of Health and Human Services (DHHS) Radiation Performance Standard according to the Radiation Control for Health and Safety Act of 1968.

Since radiation emitted inside the printer is completely confined within protective housings and external covers, the laser beam cannot escape during any phase of normal user operation.

⚠ **WARNING!** Using controls, making adjustments, or performing procedures other than those specified in this user guide may result in exposure to hazardous radiation.

Canadian DOC statement

Complies with Canadian EMC Class B requirements.

«Conforme àla classe B des normes canadiennes de compatibilité électromagnétiques (CEM).»

Japanese VCCI statement

この装置は，情報処理装置等電波障害自主規制協議会（ＶＣＣＩ）の基準に基づくクラスＢ情報技術装置です。この装置は，家庭環境で使用することを目的としていますが，この装置がラジオやテレビジョン受信機に近接して使用されると，受信障害を引き起こすことがあります。
取り扱い説明書に従って正しい取り扱いをして下さい。

Korean EMI statement

사용자 안내문 (B 급 기기)

이 기기는 비업무용으로 전자파장해검정을 받은 기기로서, 주거지역에서는 물론 모든 지역에서 사용할 수 있습니다.

Finnish laser statement

LASERTURVALLISUUS

LUOKAN 1 LASERLAITE

KLASS 1 LASER APPARAT

HP LaserJet 4200, 4200n, 4200tn, 4200dtn, 4200dtns, 4200dtnsL, 4200L, 4200Ln, 4250, 4250n, 4250tn, 4250dtn, 4250dtnsl, 4300, 4300n, 4300tn, 4300dtn, 4300dtns, 4300dtnsL, 4350, 4350n, 4350tn, 4350dtn, and 4350dtnsl -laserkirjoitin on käyttäjän kannalta turvallinen luokan 1 laserlaite. Normaalissa käytössä kirjoittimen suojakotelointi estää lasersäteen pääsyn laitteen ulkopuolelle.

Laitteen turvallisuusluokka on määritetty standardin EN60825-1 (1994) mukaisesti.

VAROITUS!

Laitteen käyttäminen muulla kuin käyttöohjeessa mainitulla tavalla saattaa altistaa käyttäjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

VARNING!

Om apparaten används på annat sätt än i bruksanvisning specificerats, kan användaren utsättas för osynlig laserstrålning, som överskrider gränsen för laserklass 1.

HUOLTO

HP LaserJet 4200, 4200n, 4200tn, 4200dtn, 4200dtns, 4200dtnsL, 4200L, 4200Ln, 4250, 4250n, 4250tn, 4250dtn, 4250dtnsl, 4300, 4300n, 4300tn, 4300dtn, 4300dtns, 4300dtnsL, 4350, 4350n, 4350tn, 4350dtn, and 4350dtnsl -kirjoittimen sisällä ei ole käyttäjän huollettavissa olevia kohteita. Laitteen saa avata ja huoltaa ainoastaan sen huoltamiseen koulutettu henkilö. Tällaiseksi huoltotoimenpiteeksi ei katsota väriainekasetin vaihtamista, paperiradan puhdistusta tai muita käyttäjän käsikirjassa lueteltuja, käyttäjän tehtäväksi tarkoitettuja ylläpitotoimia, jotka voidaan suorittaa ilman erikoistyökaluja.

VARO!

Mikäli kirjoittimen suojakotelo avataan, olet alttiina näkymättömälle lasersäteilylle laitteen ollessa toiminnassa. Älä katso säteeseen.

VARNING!

Om laserprinterns skyddshölje öppnas då apparaten är i funktion, utsättas användaren för osynlig laserstrålning. Betrakta ej strålen.

Tiedot laitteessa käytettävän laserdiodin säteilyominaisuuksista:

Aallonpituus 770-800 nm

Teho 5 mW

Luokan 3B laser

Operating environment

Place the printer on a sturdy, level surface in a well-ventilated area that meets the following environmental requirements:

- Temperature: 15° to 32.5°C (59° to 90.5°F)
- Humidity: 10% to 80% relative humidity (no condensation)
- Away from direct sunlight, open flames, and ammonia fumes
- With sufficient space around the printer for access and ventilation (see Table 1-7 Product dimensions for a complete list of product measurements)

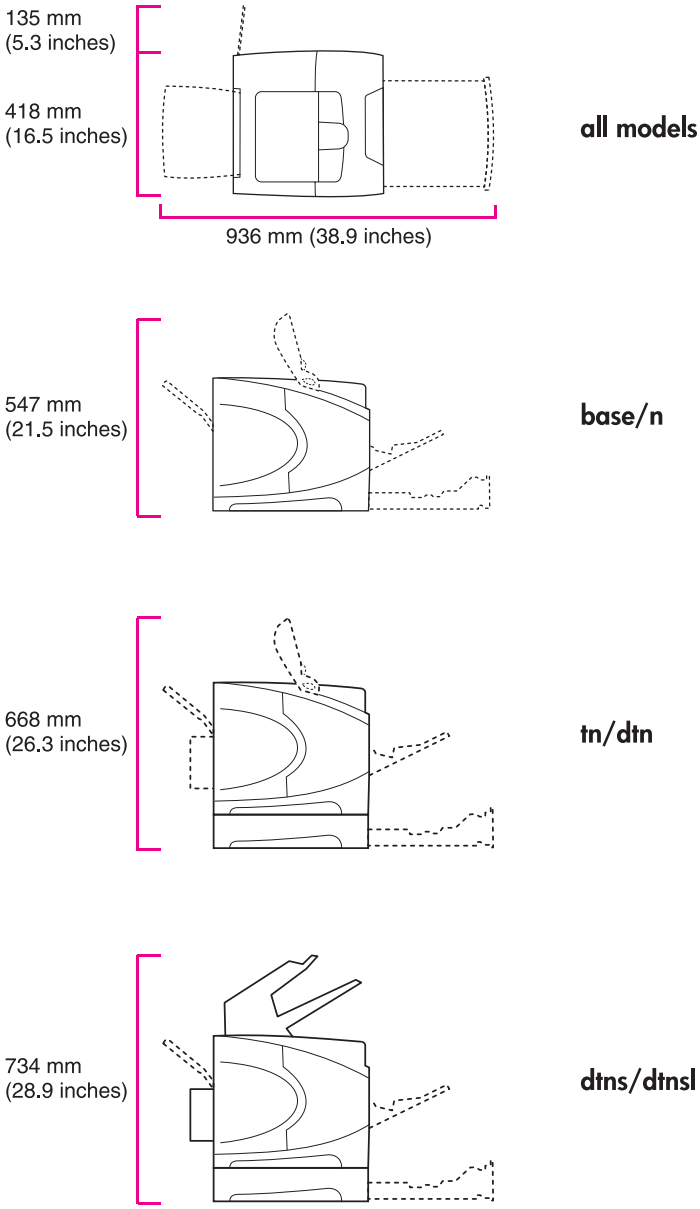


Figure 2-1 Printer measurements

Site requirements

The following environmental specifications must be maintained to ensure the correct operation of the printer. Consider the following points before installing the printer:

- Install in a well-ventilated, dust-free area.
- Install on a hard, flat, continuous surface, with all four printer feet level. Do not install on carpet or other soft surfaces.
- Make sure that adequate power is supplied. Uninterruptible power supplies (UPSs) are not recommended.
- Install where temperature and humidity are stable, away from water sources, humidifiers, air conditioners, refrigerators, or other major appliances. See Operating environment for temperature and humidity ranges.
- Install away from direct sunlight, open flames, or ammonia fumes. If the printer is placed near a window, make sure that the window has a curtain or blind to block direct sunlight.
- Install with enough space around the printer for access and ventilation.
- Install away from the direct flow of exhaust from air-ventilation systems.

Install the printer with enough space around it to open trays and bins, install print cartridges, and perform maintenance. The printer needs 101 mm (4 inches) of ventilation space on the left side (fan side) and at the rear of the printer.

Software installation

Information about installing and uninstalling the printing system software is available in chapter one of the electronic user guide on the installation cd.